Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

1. (currently amended) A method of inhibiting thrombin-induced ~~platelet or other~~ cell activation mediated by cleavage of a thrombin receptor on said cells comprising administering to an individual in need of such treatment an effective amount of a compound comprising one or more segments having the amino acid sequence X_1-Arg-Pro-Pro-X_2, wherein the compound has a formula selected from the group consisting of:

X_1-Arg-Pro-Pro-X_2; and

L-(X_1-Arg-Pro-Pro-X_2)$_n$;

wherein:

X_1, which may be the same or different in each segment, is from zero to thirty natural or synthetic amino acids;

X_2, which may be the same or different in each segment, is from zero to thirty natural or synthetic amino acids, provided that the N-terminal amino acid of X_2 is not glycine;

L is a linker comprising a covalent bond or chemical group; and

n is an integer from two to twenty.

2. (original) The method of claim 1 wherein X_1 is zero to seven amino acids and X_2 is zero to nine amino acids.

3. (currently amended) The method of claim 1 wherein X_1 is ~~from zero to thirty amino acids from amino acids 1-30 of SEQ ID NO:1.~~ zero amino acids, SEQ ID NO:1, or a fragment of SEQ ID NO:1.

4. (original) The method of claim 2 wherein X_1 is from zero to seven amino acids from amino acids 24-30 of SEQ ID NO:1.

5. (original) The method of claim 1 wherein the compound comprises two or more segments and at least two of the segments are different.

6. (original) The method of claim 1 wherein the compound comprises two or more segments and all the segments are identical.

7. (original) The method of claim 1 wherein n is an integer from two to four.

8. (original) The method of claim 1 wherein the compound has the formula

$$L\text{-}(Arg\text{-}Pro\text{-}Pro\text{-}X_2)_n.$$

9. (original) The method of claim 8 wherein the compound has the formula

$$L\text{-}(Arg\text{-}Pro\text{-}Pro)_n.$$

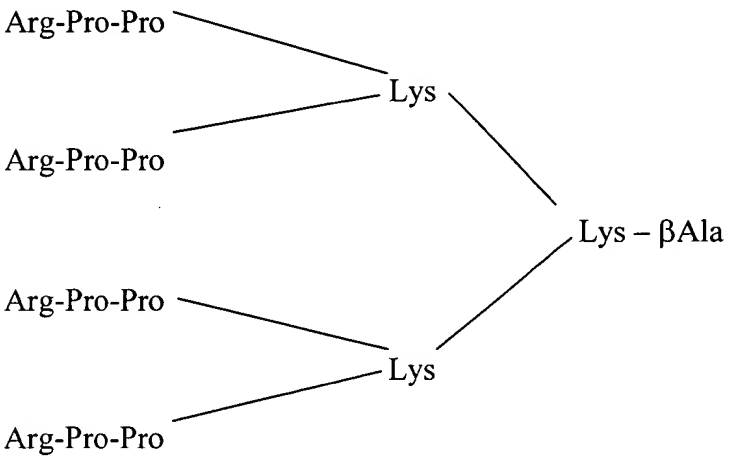
10. (original) The method of claim 1 wherein the compound is selected from the group consisting of:

(a) Arg-Pro-Pro;

(b) Arg-Pro-Pro-Ala-Phe (SEQ ID NO:6);

(c) Arg-Pro-Pro-Lys
|
Arg-Pro-Pro-Asp; and

(d)



11. (canceled)

12. (canceled)

13. (canceled)

14. (currently amended) A method for preventing thrombin-induced platelet aggregation mediated by cleavage of a thrombin receptor on said platelets comprising administering to an individual in need of such treatment an effective amount of a compound comprising one or more segments having the amino acid sequence X_1-Arg-Pro-Pro-X_2, wherein the compound has a formula selected from the group consisting of:

X_1-Arg-Pro-Pro-X_2; and

L-(X_1-Arg-Pro-Pro-X_2)$_n$;

wherein:

X_1, which may be the same or different in each segment, is from zero to thirty natural or synthetic amino acids;

X_2, which may be the same or different in each segment, is from zero to thirty natural or synthetic amino acids, provided that the N-terminal amino acid of X_2 is not glycine;

L is a linker comprising a covalent bond or chemical group; and

n is an integer from two to twenty.

15. (original) The method of claim 14 wherein X_1 is zero to seven amino acids and X_2 is zero to nine amino acids.

16. (currently amended) The method of claim 14 wherein X_1 is ~~from zero to thirty amino acids from amino acids 1-30 of SEQ ID NO:1.~~ zero amino acids, SEQ ID NO:1, or a fragment of SEQ ID NO:1.

17. (original) The method of claim 15 wherein X_1 is from zero to seven amino acids from amino acids 24-30 of SEQ ID NO:1.

18. (original) The method of claim 14 wherein the compound comprises two or more segments and at least two of the segments are different.

19. (original) The method of claim 14 wherein the compound comprises two or more segments and all the segments are identical.

20. (original) The method of claim 14 wherein n is an integer from two to four.

21. (original) The method of claim 14 wherein the compound has the formula L-(Arg-Pro-Pro-X_2)$_n$.

22. (original) The method of claim 21 wherein the compound has the formula L-(Arg-Pro-Pro)$_n$.

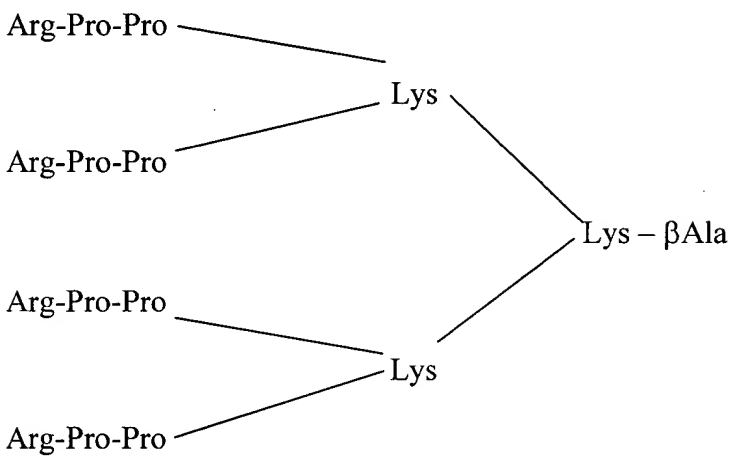
23. (original) The method of claim 14 wherein the compound is selected from the group consisting of:

(a) Arg-Pro-Pro;

(b) Arg-Pro-Pro-Ala-Phe (SEQ ID NO:6);

(c) Arg-Pro-Pro-Lys
|
Arg-Pro-Pro-Asp; and

(d)



24. (previously presented) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound comprising Arg-Pro-Pro-Ala-Phe (SEQ ID NO:6) or one or more segments having the amino acid sequence X_1-Arg-Pro-Pro-X_2, wherein the compound has a formula

$$L\text{-}(X_1\text{-Arg-Pro-Pro-}X_2)_n;$$

wherein:

X_1, which may be the same or different in each segment, is from zero to thirty natural or synthetic amino acids;

X_2, which may be the same or different in each segment, is from zero to thirty natural or synthetic amino acids, provided that the N-terminal amino acid of X_2 is not glycine;

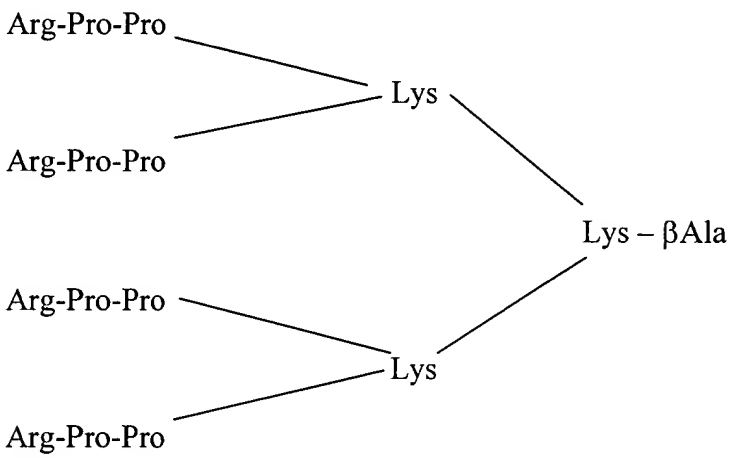
L is a linker comprising a covalent bond or chemical group; and

n is an integer from two to twenty.

25. (previously presented) The pharmaceutical composition of claim 24 comprising a pharmaceutically acceptable carrier and a compound having a formula selected from the group consisting of:

(a) Arg-Pro-Pro-Lys
|
Arg-Pro-Pro-Asp; and

(b)



26. (withdrawn) A method for identifying compounds that selectively inhibit thrombin-induced platelet and other cell activation comprising measuring the ability of the compounds to bind to the thrombin cleavage site on the thrombin receptor.

27. (withdrawn) The method of claim 26 wherein the compounds are present in a combinatorial library.

28. (withdrawn) The method of claim 26 further comprising:

(a) measuring the ability of the compounds to inhibit thrombin-induced platelet aggregation; and

(b) measuring the ability of the compounds to inhibit thrombin-induced calcium mobilization in fibroblasts.